CAD / CAM Committee Approved, Organizing January 12

At November meetings, the Technical Activities Committee (TAC) and the AIAA Board approved formation of a CAD/CAM Technical Committee (TC), taking as a starting point the CAD engineering subcommittee of the Design Engineering TC.

CAD/CAM applies computer aids to design, manufacturing, test and inspection to support production. It covers product description, hardware, software, and support services to insure effective use, standards, and procedures. CAD tools span analysis, design graphics, group technology, and data management. CAM tools span analysis, design graphics, group technology, and data management. CAM includes numerical-control programming and machining, flexible automation, automated inspection, automated test, group technology, and data management. It features configuration control by common data management to gain high productivity.

Until recently, CAD and CAM have been treated by many as independent areas: specific tools to address CAD and specific tools to address CAM. This has raised productivity in some areas by a factor of 3. However, it has been demonstrated that much larger productivity increases can be obtained (e.g., 8:1) by *integrating* computer-aided design and manufacturing.

Through its CAD/CAM TC the Institute adds a major new technical forum and service for industrial and manufacturing engineers. In addition to designers using CAD, the TC will include engineers active in developing and applying computer aids for production planning, tooling, robotics, test, and inspection. The TC will emphasize development and application of *integrated* CAD/CAM systems.

The organizational meeting for the CAD/CAM TC takes place next month, January 12, in St. Louis at the 19th Aerospace Sciences Meeting. For more information, contact Bernie Breen, organizing chairman (314 862-2440), or Bill Simpkin (214 266-2766).

Alabama Section Aims at Youth

The Alabama Section held two activities almost half a year apart dedicated to students. In the spring about 30 Huntsville city school science teachers attended the Shuttle Primer 2, a one-day update of last year's two seminars on space operations and potential for the 1980s. The summer issue of *Explorer*, the Section's eight-page quarterly, carried several articles from the meeting and was distributed to area teachers and students.

Builders ready their entries in the Alabama Section model rocket contest.

During the summer the Section held its third annual model rocketry contest at the old airport in Huntsville with the help of United Space Boosters and area model shops. Eighty-five entries zoomed off the runway, up from 1979's 75, as 200-300 spectators wandered in and out during the three-hour event. **Dave Dooling**

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Klaus D. Dannenberg, Computer Sciences Corp.

Clarence W. Kitchens, Jr., U.S. Army Ballistic Research Lab

Virgil M. Marti, McDonnell Aircraft

Chester A. Rembleske, Beech Aircraft

Sheila Widnall, MIT

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V/STOL

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V/STOL systems.

The Bell XV-15 tilt-rotor research aircraft reached 301 knots in level flight and completed the contractor flight phase. Proof-of-concept testing by NASA and DOD personnel has begun at NASA Ames Research Center and NASA Dryden Flight Research Center. The Sikorsky XH-59 coaxial helicopter has reached 238 knots in level flight during flight-envelope-ex-